Solicitation No. XXX

Soil and Sediment Remediation Services

OMC Plant 2 Site, Waukegan, Illinois

November 2009

CH2MHILL
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Milwaukee, WI 53214

Contents

Acronyms and Abbreviations

CFR	Code of Federal Regulations
DNAPL	dense nonaqueous phase liquid
ft^2	square feet
HAZWOPER	40-hr hazardous waste operations and emergency response
JHA	Job Hazard Analyses
NSSD	North Shore Sanitary District
OMC	Outboard Marine Corporation
OSHA	Occupational Safety and Health Administration
PCB	polychlorinated biphenyls
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
TCE	Trichloroethene
TSCA	Toxic Substances Control Act
USEPA	U.S. Environmental Protection Agency
VPP	Voluntary Protection Program

Introduction

CH2M HILL, Inc. has been contracted by the United States Environmental Protection Agency (USEPA), Region 5 to perform remediation activities for the Outboard Marine Corporation (OMC) Plant 2 site in Waukegan, Illinois. In turn, CH2M HILL is planning to subcontract portions of the work to qualified subcontractors. This work is being conducted under USEPA Region 5 Contract No. EP-S5-06-01 with CH2M HILL.

Site Description

A detailed description of the history of OMC Plant 2 can be found in the Remedial Investigation and Feasibility Study (RI/FS) reports and the Record of Decision (ROD). The OMC Plant 2 Site is a 60-acre industrial property on the lakefront in Waukegan, Illinois. The OMC Plant 2 property included a 1,036,000-square-foot (ft^2) former manufacturing plant building and included several parking lot areas to the north and south of the building complex. The building has since been demolished down to the building slab.

The site also includes two polychlorinated biphenyl (PCB) containment cells in which PCB-contaminated sediment (dredged from Waukegan Harbor in the early 1990s) and PCB-impacted soil are managed. The cells (the East Containment Cell and the West Containment Cell) are located north of the plant building.

The site is bordered by the North Shore Sanitary District (NSSD) to the north, Lake Michigan to the east, Sea Horse Drive and Waukegan Harbor to the south, and E.J. & E Railroad tracks to the west. The North Ditch drains upland (offsite) areas and runs along the NSSD border towards Lake Michigan until it turns to the south close to the lake. The lakefront portion of the site is emergent dune land and beachfront.

Scope of Work

Descriptions of the primary components of the Scope of Work are presented below. The details and construction methods for each of these components are presented in the attached specifications and drawings.

Soil and sediment remediation of the OMC Plant 2 site consists of the following components:

- Demolition and disposal of concrete floor slabs of OMC Plant 2 and the Former Trim building to surrounding grade.
- Excavation and offsite disposal of soil and sediment.
- The abandonment of monitoring and injection wells within the building footprint, within the 20 feet of the perimeter of the building, and within the proposed trichloroethylene (TCE) dense non-aqueous phase (DNAPL) area.

- The demolition of the OMC Plant 2 building footings below grade located within TCE DNAPL area.
- The delineation and excavation, if applicable, of elevated PCB concentrations in the unsaturated soil identified by the City of Waukegan soil sampling.
- The investigation and excavation, if applicable, of the unsaturated zone soil beneath the concrete floor slabs of OMC Plant 2 and the Former Trim Building.

Coordination with Other Contractors and Site Employees

The Subcontractor will be required to coordinate activities with the CH2M HILL site manager, the City of Waukegan, and any other subcontractors working at the site. Related work will be performed at the site before the soil and sediment work is performed, but significant overlap at the site with subcontractors performing other work is not anticipated.

Schedule

The currently proposed schedule is attached.

Site Health and Safety

The selected Subcontractor must submit a copy of health and safety procedures, including Job Hazard Analyses (JHAs) for review upon the award of the subcontract. Acceptance of the JHAs by CH2M HILL prior to Subcontractor mobilization is mandatory. The Subcontractor's onsite employees are required to have successfully completed the Occupational Safety and Health Administration's (OSHA) 40-hour hazardous waste operations and emergency response (HAZWOPER) training in accordance with 29 Code of Federal Regulations (CFR) 1910.120 and to have maintained compliance with the 8-hour annual refresher requirement. Onsite workers shall present documentation of the OSHA 40-hour, current OSHA 8-hour annual, and equipment operator (as applicable) training prior to beginning onsite work.

The Subcontractor must also comply with all other applicable federal, state, or local health and safety requirements. In all cases, the Subcontractor is solely responsible for the health and safety of its employees and for adhering to its health and safety policies and procedures. If lower-tier Subcontractors are used, the Subcontractor is required to notify and receive approval from CH2M HILL prior to the lower-tier Subcontractor arriving onsite.

The Subcontractor must fully support the commitment to workplace safety and health excellence at the OMC Plant 2 site that will include, but is not limited, to the following elements:

1. Onsite Safety and Health Orientation
2. Safe Work Observation Program
3. Job Hazard Analyses
4. Employment of an Occupational Health Care Provider
5. Retaining Employee Training Records and Documentation at the Work Site

6. Employee Drug Testing Program
7. Retaining Equipment Inspection Records at the Work Site
8. Daily Safety Meetings
9. Accident Investigation Program
10. Weekly Worksite Inspections with Project Team Members

Compensation

The Subcontractor will be compensated for the work described in this Scope of Work. Generally, the soil and sediment remediation will be on a per ton basis. Payment for other ancillary items will be on a lump sum or unit priced basis.

Bid Form
Soil Excavation and Disposal
OMC Plant 2 Remedial Action

	Bid Item	Estimated Quantity	Unit	Bid Price Per Unit	Extension
1	General Requirements	1	LS	$	$
2	Mobilization	1	LS	$	$
3	Survey Establish Benchmarks	1	LS	$	$
4	Property Boundary Survey	1	LS	$	$
5	Initial Topographic Survey	1	LS	$	$
6	Pre-Excavation Survey	25	AC	$	$
7	Post-Excavation Survey	25	AC	$	$
8	Post-Backfill Survey	24	AC	$	$
9	Additional Survey Services	100	HR	$	$
10	Well Abandonment	1,725	VLF	$	$
11	Excavation of Soil (Not Including the Dunes Area)	111,446	TN	$	$
12	Excavation of Soil from Dunes Area	6,006	TN	$	$
13	North Ditch - Water Management (Includes Stabilization)	4,752	TN	$	$
14	Excavation of Sediment from North Ditch	4,752	TN	$	$
15	South Ditch - Water Management (Includes Stabilization)	1,358	TN	$	$
16	Excavation of Sediment from South Ditch	1,358	TN	$	$
17	TSCA Transport and Disposal - All Materials Other than Concrete and Sewer Materials	7,970	TN	$	$
18	TSCA Transport and Disposal - Concrete and Sewer Materials	6,720	TN	$	$
19	Subtitle D Landfill Transport and Disposal - All Materials Other than Concrete and Sewer Mat	108,033	TN	$	$
20	Subtitle D Landfill Transport and Disposal - Concrete and Sewer Materials	17,280	TN	$	$
21	Backfill with Imported Sand (Hauling Included)	7,207	TN	$	$
22	Restoration of Dunes Area	1.3	AC	$	$
23	Concrete Floor Slab Demolition	73,214	SY	$	$
24	OMC Plant 2 Building Footings Demolition	209	CY	$	$
25	Crushing of Non-Contaminated Materials	6,589	TN	$	$
26	Onsite Disposal of Recycled Fill	6,589	TN	$	$
27	Excavation of Sewer Lines	100	LF	$	$
28	Plugging of Sewer Lines	4	EA	$	$
29	Removal of Water from Tunnels Beneath Building	300,000	GAL	$	$
30	Backfill with Material from Beneath Floor Slabs	54,035	TN	$	$
31	Backfill with Imported Earthfill	11,997	TN	$	$
32	Backfill with Imported Gravel	28,748	TN	$	$
33	Rough Grading of Former Building Footprint	15	AC	$	$
34	Demobilization	1	LS	$	$
35	Subcontract Closeout	1	LS	$	$
36	Performance and Payment Bond	1	LS	$	$

Specifications

Drawings